

## CLAIMS:

1. A method of modifying data in an encoded data signal comprising :

- a) a decoding step for decoding said encoded data signal and providing a decoded data signal,
- b) a re-encoding step performed on a modified data signal and generating a coding error,
- 5 c) a prediction step for providing a motion-compensated signal from said coding error and comprising at least a subtracting sub-step between an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

characterized in that it comprises :

- 10 d) a first sub-step for adding an additional data signal to said decoded data signal, for providing said input data signal,
- e) a second sub-step for adding said additional data signal to said coding error, said motion-compensated signal resulting from the motion compensation of the output signal of said second adding sub-step.

15 2. A method of modifying data in an encoded data signal comprising :

- a) a decoding step for decoding said encoded data signal and providing a decoded data signal,
- b) a re-encoding step performed on a modified data signal and generating a coding error,
- 20 c) a prediction step for providing a motion-compensated signal from said coding error and comprising at least a subtracting sub-step between an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

characterized in that it comprises a sub-step for adding an additional data signal to said  
25 modified data signal, before said re-encoding step.

3. A transcoding device for adding data to an encoded data signal, comprising :

- a) decoding means for decoding said encoded data signal and providing a decoded data signal,

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- b) re-encoding means acting on a modified data signal and generating a coding error
- c) prediction means for providing a motion-compensated signal from said coding error, and comprising at least subtracting means acting on an input data signal obtained at least from said decoded data signal and said motion-compensated signal, for obtaining said modified data signal,

5 characterized in that it comprises :

- d) a first means for adding an additional data signal to said decoded data signal, for providing said input data signal,
- e) a second means for adding said additional data signal to said coding error, said motion-compensated signal resulting from the motion compensation of the output signal of said second means.

4. A transcoding device for adding data to an encoded data signal, comprising :

- a) decoding means for decoding said encoded data signal and providing a decoded data signal,
- b) re-encoding means acting on a modified data signal and generating a coding error,
- c) prediction means for providing a motion-compensated signal from said coding error and comprising at least subtracting means acting on an input data signal obtained at least from said decoded data signal and said motion-compensated signal for obtaining said modified data signal,

20 characterized in that it comprises means for adding an additional data signal to said modified data signal, before the re-encoding means.

5. A computer program product for a transcoding device for adding data to an encoded data signal, comprising a set of instructions which, when loaded into said device, causes said device to carry out the method as claimed in claim 1.

6. A computer program product for a transcoding device for adding data to an encoded data signal, comprising a set of instructions which, when loaded into said device, causes said device to carry out the method as claimed in claim 2.